BAILUN(ALEX) WU

+1(415) 837-8536 | bwu200276@g.ucla.edu | San Francisco, CA | Alexwu0706.github.io | https://www.linkedin.com/in/bailun-wu/

Education

University of California, Los Angeles (UCLA) **Los Angeles, CA**

---*B.S., Electrical Engineering* (Sept 2022 - Jun 2024)

- GPA: 3.73
- Honor: Dean's List (Good Standing)

Technical Skills

Programming Language: Matlab; Python; C/C++; HTML; Github; CSS; R Script; Linux; Java

Prototyping: Experienced with Arduino; Oscilloscope; Function Generator; Multimeter; Microcontroller.

Software: Advanced in Microsoft Excel, Office & PowerPoint.

Multilingual: Fluent in English, Mandarin & Cantonese.

Course: Advanced Circuit Analysis; System and Signal; Principles of Feedback Control; Data Structures and Algorithms; Data Science; Machine Learning; Electromagnetism; Principles of Power System.

Work Experience

C2 Education **San Francisco, CA**

---Mathematics Tutor (Jun 2022 - Sept 2022)

- Tutoring over high school level math topics.
- focusing on test preparation for the math section.
- guiding and assisting students with math homework.

San Francisco State University Bookstore **San Francisco, CA**

---Retail Sales Associate (Jul 2022 - Sept 2022)

- Operate a cash register, accepting cash, credit or financial aid payments.
- Carry, shelve and straightens merchandise, stocks shelves, prices merchandise and may assist in setting up displays and signs.
- Pick, process and pack orders for shipping.
- Provide customer service/sales functions for special events.(including but not limited to graduation and athletic events)
- Support a store environment where all associates and customers are welcome.

Engineering Projects

Micromouse **Los Angeles, CA**

---UCLA IEEE Project (Oct 2022 - Sep 2023)

- Build a maze solving robot from scratch.
- PCB design and CAD Application.
- Program complex microcontrollers.
- Algorithm Implementation to solve the Maze

Path Following Robot Car **Los Angeles, CA**

---ECE3 Project (Oct 2022 - Dec 2022)

- Utilized the TI Robotics System Learning Kit to implement PID controls on a robotic car achieving 8.3 seconds on a 3.4 meter track.
- Developed code utilizing real-time phototransistor data to send updated movements to the car as a closed-loop feedback system.

Electrocardiogram **Los Angeles, CA**

--- ENGR 96E (Jan 2023 - Mar 2023)

- Use concepts and techniques in electrical circuit design and analysis, cardiac electrophysiology, biophysics, microcontrollers, and computer programming.
- Work in teams to design, construct, and test circuit boards capable of measuring human electrocardiograms by capturing data with microcontroller, with computer analysis and display.

Solar Powered Vehicle **Los Angeles, CA**

---UCLA IEEE Project (Oct 2023 - Present)

- Power system optimization with circuit analysis of the embedded circuit components (Passive circuit components).
- PCB Design and Solar Panel Application.
- Signal Processing for control system implementation
- Power factor Correction